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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/014,471	12/14/2001	Ching-Hsing Huang	3313-0443P-SP	1066
2292	7590 03/01/2004		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			SMITH, JULIE KNECHT	
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			3682	
			DATE MAILED: 03/01/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	_
•	10/014,471	HUANG ET AL.	
Office Action Summary	Examiner	Art Unit	-
,	Julie K Smith	3682	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address	_
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be by within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS from the course the application to become ABANDO	timely filed days will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 09 L	December 2003.		
<u> </u>	s action is non-final.		
3) Since this application is in condition for allows		prosecution as to the merits is	
closed in accordance with the practice under	·		
Disposition of Claims			
4) Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) 8-18 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 and 19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	n from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 14 December 2001 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11.	are: a) \square accepted or b) \square objection is required if the drawing(s) is consistent and in the drawing(s) is consistent and the drawing(s).	See 37 CFR 1.85(a). Objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Applica prity documents have been recei uu (PCT Rule 17.2(a)).	ation No ved in this National Stage	
Attachment/s)			
Attachment(s) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa	rv (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date) 5) Notice of Informal 6) Other:	Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 2. Claims 1, 3, 4, 6, 7 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Wasson (5,871,285). Wasson discloses a hydrodynamic bearing comprising a sealed housing (1) containing a lubricant, a cylinder-shaped bushing (6) placed in the housing having a plurality of dynamic pressure generating herringbone grooves (12) being penetrated for storing the lubricant, and a shaft (7) rotatably installed in the bushing, wherein the lubricant produces hydrodynamic pressure between the grooves and the shaft, when the shaft rotates relative to the bushing.

 Wasson further discloses a pre-pressure being applied to the bushing for making the lubricant pass through the grooves (see col. 4, lines 20-35). Wasson does not explicitly state that the pre-pressure is applied to the housing of the bearing, however, by applying the pressure to the bushing, a pressure difference is created between the outside of the housing and the inside of the housing, causing the lubricant to flow into the grooves of the bushing.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 3682

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wasson as applied to claims 1, 3, 4, 6, 7 and 19 above, and further in view of Mori et al. (6,250,807).

Regarding claim 2, Wasson discloses a hybrid bearing as claimed, but is silent as to the housing comprising a porous material for storing lubricant. However, Mori et al. teaches a housing for a bearing having a porous material for storing lubricant.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the housing of Wasson with the teachings of Mori et al. to have a porous housing so as to more evenly distribute the lubricant over the length of the bushing and shaft.

Regarding claim 5, Wasson discloses a bearing with a sealed housing, but does not disclose the housing sealed with glue. However, Mori et al. teaches a housing containing a lubricant with a seal made from a synthetic resin.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the seal of Wasson with the teachings of Mori et al. to be made from a glue as it is old and well known in the art to use glue as a sealant.

Response to Arguments

5. Applicant's arguments filed 12/9/03, with respect to the rejection(s) of claim(s) 1-7 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

However, upon further consideration, a new ground(s) of rejection is made.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julie K Smith whose telephone number is 703-305-3948. The examiner can normally be reached on Monday-Friday, 8-5:30, (Every other Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Bucci can be reached on 703-308-3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

J() Jks

February 20, 2004

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

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